

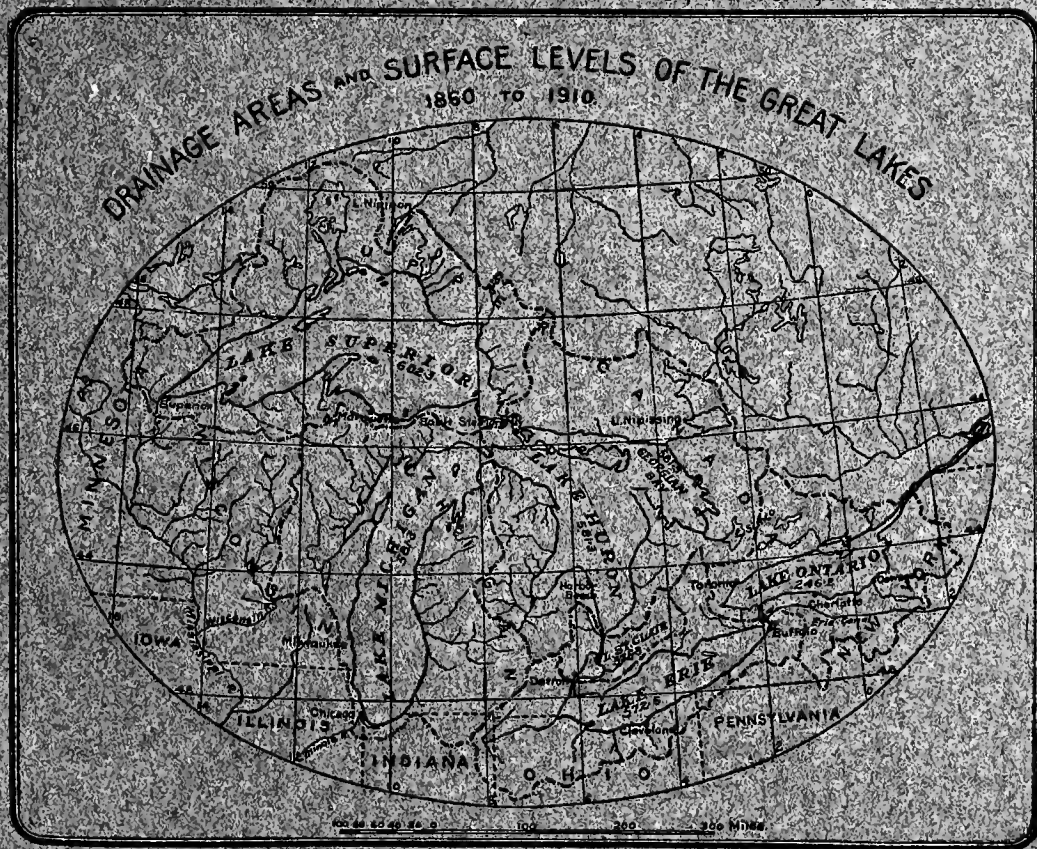
GB 1627

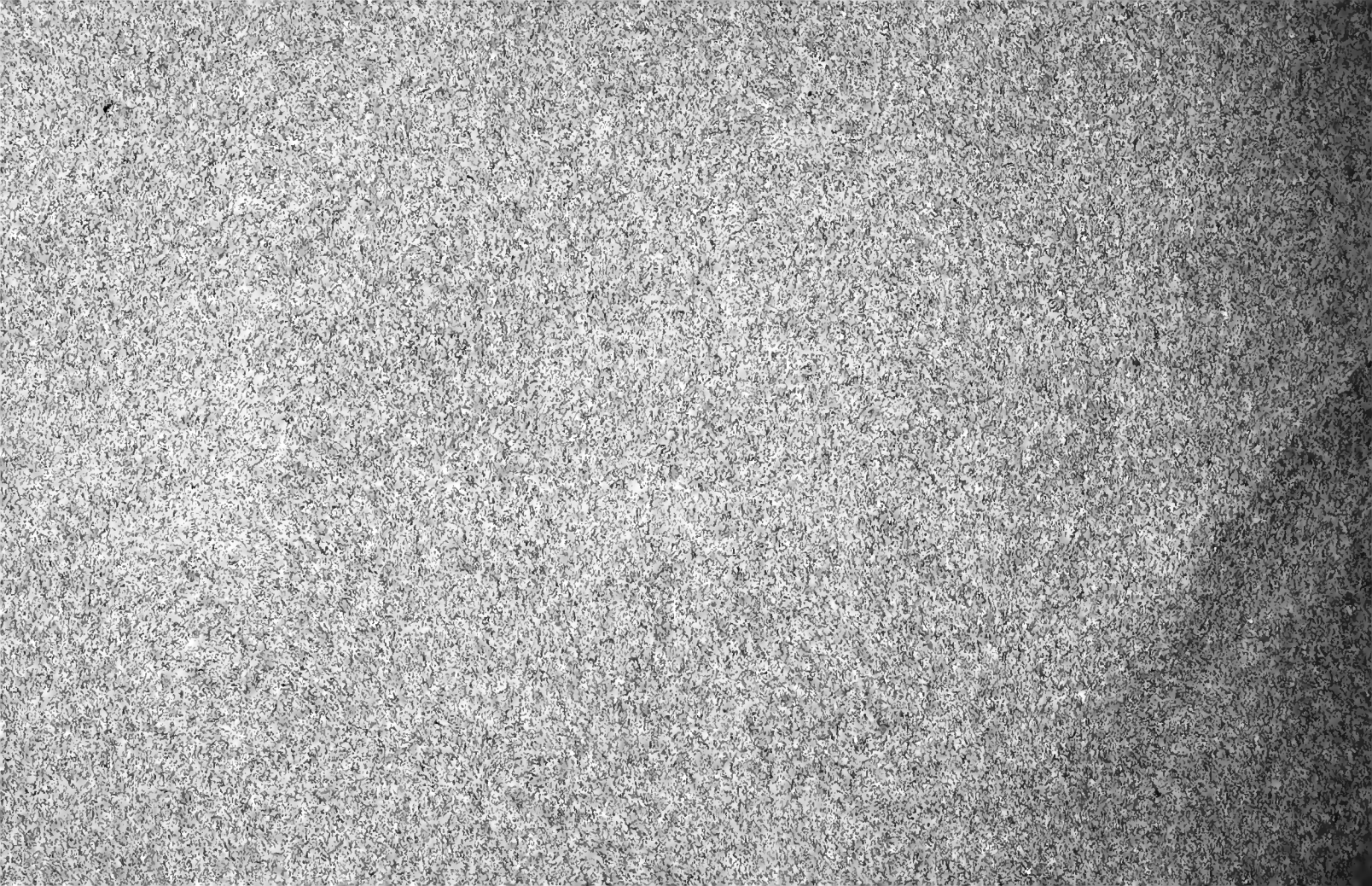
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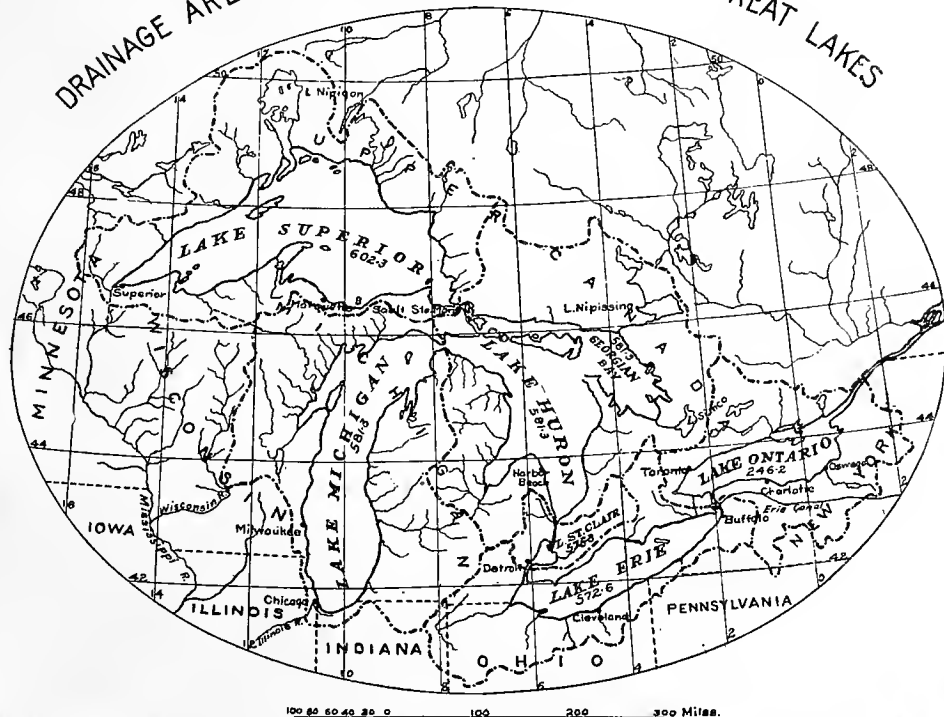
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From office of Brigadier General W. H. BIXBY, Chief of Engineers, Washington, D. C.





DRAINAGE AREAS AND SURFACE LEVELS OF THE GREAT LAKES 1860 TO 1910.



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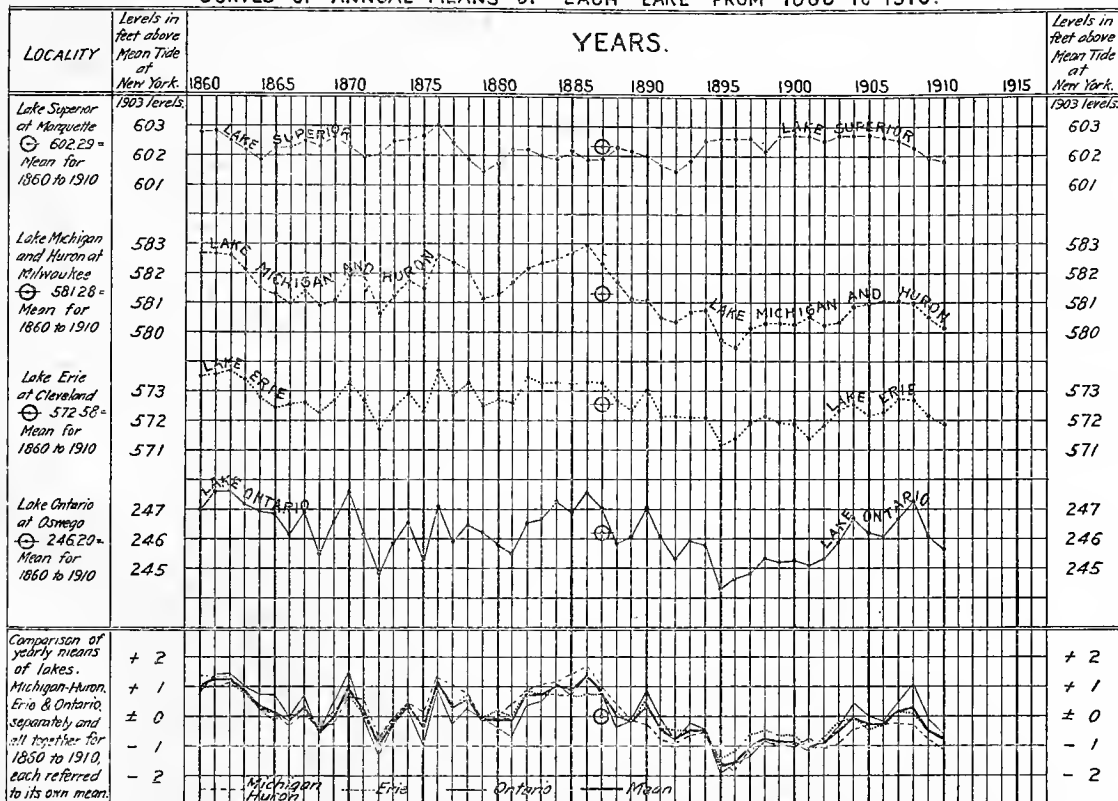
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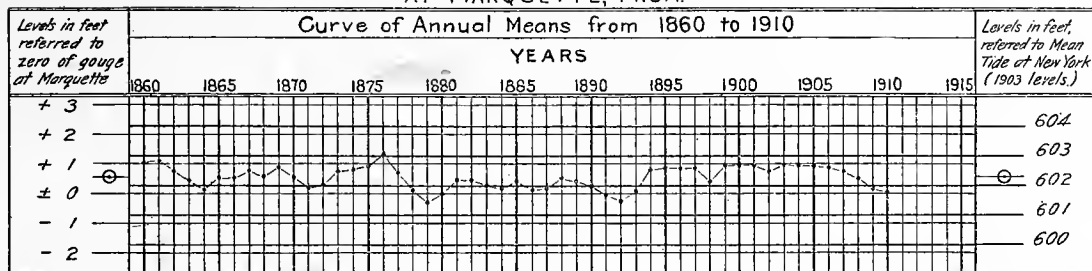
SURFACE LEVELS OF THE GREAT LAKES
CURVES OF ANNUAL MEANS OF EACH LAKE FROM 1860 TO 1910.



Under direction of Brigadier General W. H. BIXBY, Chief of Engineers, Washington, D.C., November, 1911.
Drawn in Office of U.S. Lake Survey. Based upon Records of the Lake Survey and other U.S. Engineer Offices.

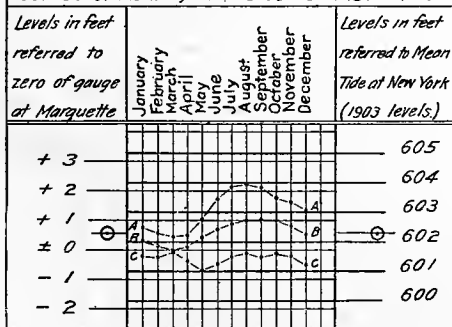


SURFACE LEVELS OF LAKE SUPERIOR AT MARQUETTE, MICH.



Zero of Marquette gauge = 601.75 above New York (U.S. Lake Survey level adjustment of 1903)
 Mean level for 1876 or highest annual mean = 603.06, Highest monthly mean = 604.08, Sep 1869
 " " " 1879 " lowest " " = 601.43, Lowest " " = 600.76, Feb 1871
 " " " Averages for 51 years or for 1860 to 1910 incl. = 602.29 (see ⊕ in side columns)

Curves of Monthly Means between 1860-1910.



A = curve of 1876 or year of highest annual mean

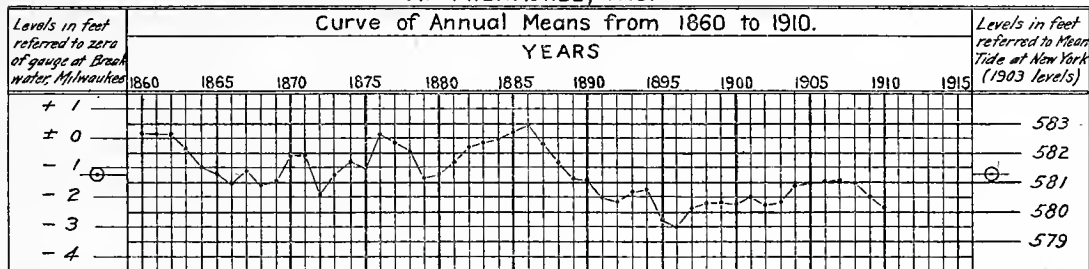
B = " " averages for 51 years, 1860 to 1910.

C = " " 1879 or year of lowest annual mean.

⊕ Represents the Average for 51 years, 1860 to 1910 incl. = 602.29.

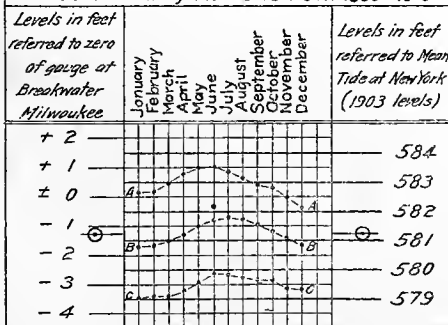
Under direction of Brigadier General W. H. BIXBY, Chief of Engineers, Washington, D.C., November, 1911.
 Drawn in Office of U.S. Lake Survey. Based upon Records of the Lake Survey and other U.S. Engineer Offices.

SURFACE LEVELS OF LAKE MICHIGAN AT MILWAUKEE, WIS.



Zero of Milwaukee gauge = 582.53 above New York (U.S. Lake Survey level adjustment of 1903.)
 Mean level for 1886 or highest annual mean = 582.96. Highest monthly mean = 583.57 June, 1886.
 " " " 1896 - lowest " " = 579.47. Lowest " " = 578.98 Dec. 1895.
 " " " Averages for 51 years or for 1860 to 1910 incl. = 581.28. (see ⊕ in side columns.)

Curves of Monthly Means between 1860-1910.



A = curve of 1886 or year of highest annual mean.

B = " " averages for 51 years, 1860 to 1910.

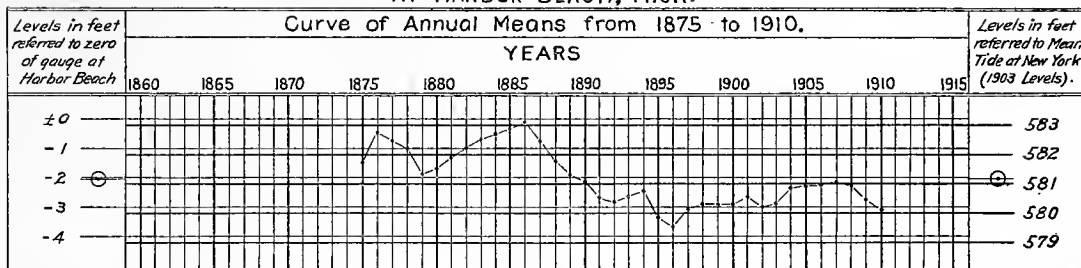
C = " " 1896 or year of lowest annual mean.

⊕ Represents the Average for 51 years, 1860 to 1910 incl. = 581.28.

Under direction of Brigadier General W. H. BIXBY, Chief of Engineers, Washington, D.C., November, 1911.
 Drawn in Office of U.S. Lake Survey. Based upon Records of the U.S. Lake Survey and other U.S. Engineer Offices.

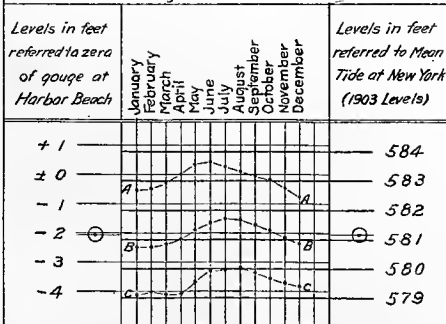


SURFACE LEVELS OF LAKE HURON AT HARBOR BEACH, MICH.



Zero of Harbor Beach gauge = 583.21 above New York. (U.S. Lake Survey level adjustment of 1903.)
 Mean level for 1886 or highest annual mean = 583.08 Highest monthly mean = 583.66. July 1876.
 " " " 1896 or lowest " " = 579.53 Lowest " " = 579.02. Dec. 1895.
 " " " Averages for 36 years or for 1875 to 1910 incl. = 581.19 (See ⊕ in side columns.)

Curves of Monthly Means between 1875-1910.

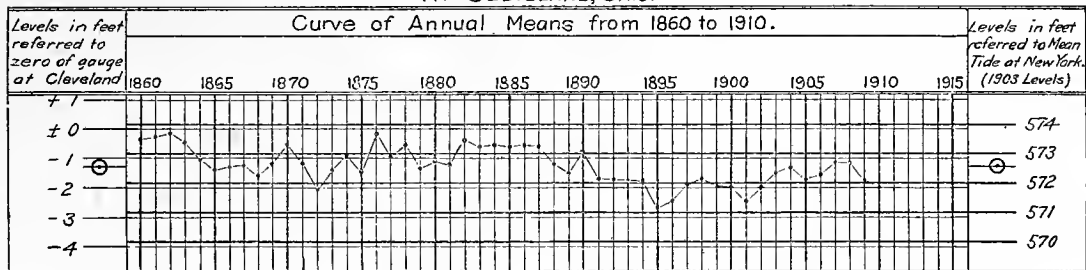


A = Curve of 1886 or year of highest annual mean.
 B = " " Averages for 36 years, 1875 to 1910.
 C = " " 1896 or year of lowest annual mean.
 ⊕ Represents the average for 36 years, 1875 to 1910 incl. = 581.19.

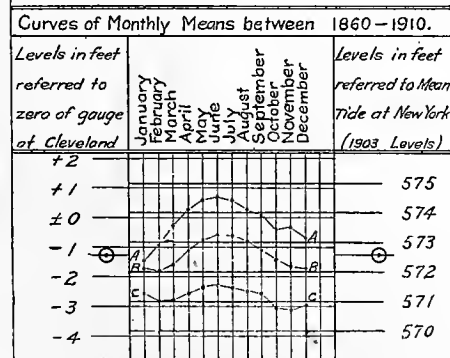
Under direction of Brigadier General W. H. BIXBY, Chief of Engineers, Washington, D.C., November, 1911.
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SURFACE LEVELS OF LAKE ERIE AT CLEVELAND, OHIO.



Zero of Cleveland Gauge 573.82 above New York (U. S. Lake Survey Levels of 1903.)
 Mean Level for 1876 or Highest Annual Mean = 573.70. Highest Monthly Mean = 574.52, June, 1876.
 " " " 1895 " Lowest " " = 571.17. Lowest " " = 570.70, Nov., 1895.
 " " " Averages for 51 Years or for 1860 to 1910 incl. 572.58 (see ⊕ in Side Columns.)



A = Curve of 1876 or of highest annual mean.

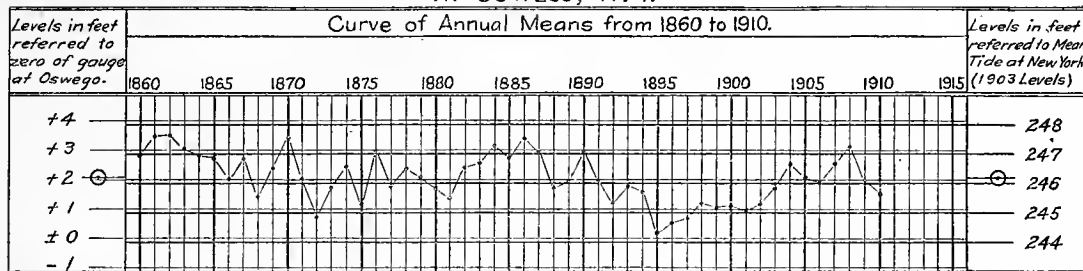
B = " " Averages for 51 years 1860-1910.

C = " " 1895 or of lowest annual mean.

⊕ Represents the Average for 51 years, 1860 to 1910 incl. = 572.58.

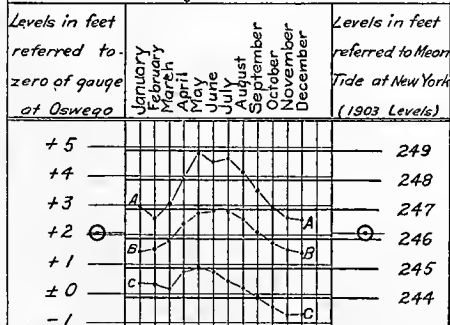
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SURFACE LEVELS OF LAKE ONTARIO AT OSWEGO, N.Y.



Zero of Oswego Gauge 244.12 above New York (U.S. Lake Survey level Adjustment of 1903.)
 Mean Level for 1862 or Highest Annual Mean = 247.63. Highest Monthly Mean = 248.95, May, 1870.
 " " " 1895 " Lowest " " = 244.29. Lowest " " = 243.41, Nov. 1895.
 " " " Averages for 51 years or for 1860 to 1910 incl. = 246.20 (see ⊕ in Side Columns.)

Curves of Monthly Means between 1860-1910.



A = Curve of 1862, or year of highest annual mean.
 B = " " Averages for 51 years, 1860 to 1910.
 C = " " 1895, or year of lowest annual mean.
 ⊕ Represents the Average for 51 years, 1860 to 1910 incl. = 246.20.

MEMORANDUM FOR THE RECORD

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